

# Reference

LAMILUX CI System Glass Architecture PR60



Rhein-Galerie, Ludwigshafen, Germany

## Essential Info

Place / Country: Ludwigshafen am Rhein, Germany

Year: 2010

Building type: Shopping mall

Solutions: Ventilation Flap PR60  
Glass Roof KWS 60 Building automation /  
CI Control Technology  
Pneumatic upstroke opener (tandem drives)  
Heat insulation glazing

Efficiency: 32% energy saving  
 $U_w = 1.3 \text{ W/(m}^2\text{K)}$   
vs.  $U_w = 1.9 \text{ W/(m}^2\text{K)}$  as per German Energy Performance of Buildings Directive 2009

330 metres long, this two-storey shopping mall is provided with plenty of natural daylight thanks to several elliptic glass structures with a total surface of 2,900 m<sup>2</sup> along the length of its gallery. This results in lower power requirements for electric lighting, which, in turn, considerably reduces CO<sub>2</sub> emissions into the environment.

- Integrated flap systems for SHEV function and natural ventilation; light transmission tested to EN 12207 (Class 4), watertightness as per EN 12208 (Class E1200), resistance under wind load as per EN 12210 (Class C4/B5)
- Thermally separated, extruded aluminium sections
- Conceptual design and installation of control devices
- Control process automation for SHEV and ventilation functions
- Connected to building control technology via Modbus connection

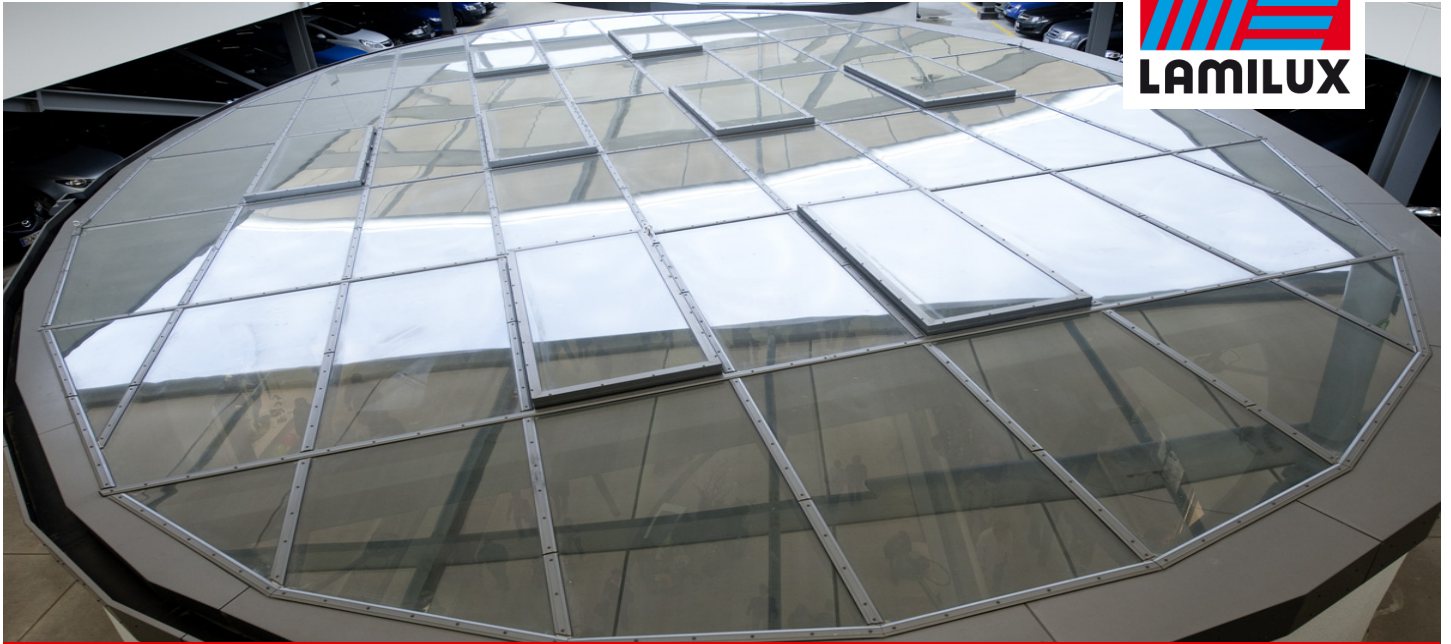
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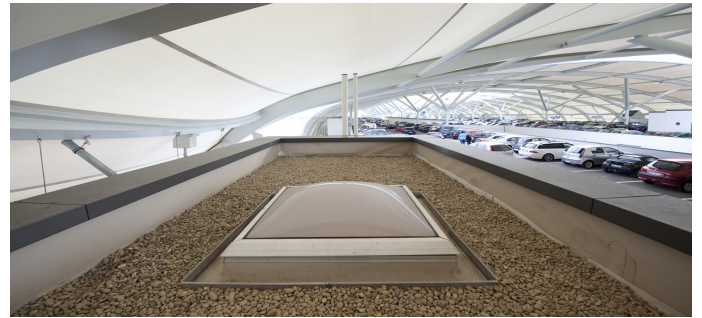
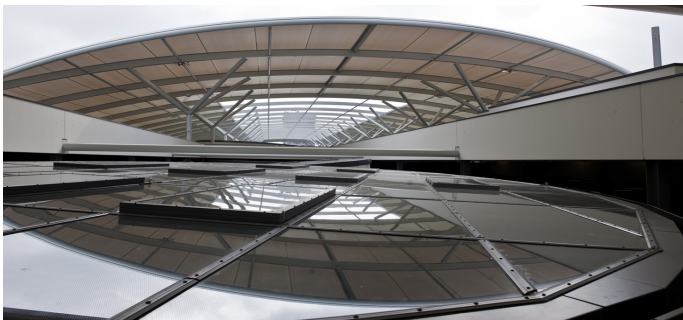
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